Financial assistance for incomplete power projects

† 852. SHRIMATI MAYA SINGH: Will the Minister of POWER be pleased to state:

(a) whether Government provided financial assistance to State Governments during 2005, 2006 and 2007, to complete the pending power projects;

(b) if so, the details thereof and which of the power projects have been completed by this assistance during the last three years, State-wise;

(c) the shortage of power in the country at present and the measures being taken to meet this shortage; and

(d) the details of the power projects under construction at present, State wise?

THE MINISTER OF POWER (SHRI SUSHILKUMAR SHINDE): (a) and (b) The Ministry of Power does not directly provide assistance for setting up of generation capacity in the State Sector. However, during the last three years, the Ministry of power has released about Rs. 803 crore of interest subsidy for speedy completion of generation projects under Accelerated Generation and Supply Programme (AG&SP). State-wise details are given at Statement-I *(See* below). The Power Finance Corporation (PFC) and the Rural Electrification Corporation (REC) have sanctioned about Rs. 41922.136 crore as loans to States for setting up of new generation capacity as per details given at Statement-II *(See* below). The details of generation projects commissioned during the last 3 years & current year (till date with the financial support of the PFC and REC is at Statement-III *(See* below).

(c) During the year 2007-08 (till July 07), the country faced energy (MU) and peak (MW) shortages of 18969 MU (7.9%) and 13686 MW (13.4%) respectively. The measures taken/are being taken by the Government to meet the power shortage *inter-alia* include:

(i) Capacity addition to the tune of 78577 MW has been proposed.

(ii) Tapping of surplus power from captive power plants.

(iii) Promoting demand side energy efficiency and energy conservation measures.

(iv) Creation of a National Grid for optimum utilization of generation capacity through inter-regional transfer of power.

(d) Details of Eleventh Plan power projects (Thermal, Hydro and Nuclear) under construction is enclosed as Statement-IV, V and VI respectively.

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†Original notice of the question was received in Hindi.

Statement-I

Funds released by Ministry of Power for setting up of new generation projects in the State Sector under AG&SP during 2004-05 to 2006-07.

(Rs. in crore)

State	Amount
Andhra Pradesh	45.59
Assam	19.41
Gujarat	143.8
Haryana	90.58
Himachal Pradesh	25.75
Jammu & Kashmir	22.79
Karnataka	30.9
Madhya Pradesh	13.61
Maharashtra	85.08
Delhi	19.9
Rajasthan	6828
Tamil Nadu	49.36
Uttar Pradesh	85.05
West Bengal	68.8
Chhattisgarh	34.3
TOTAL:	803.2

Statement-II

Loan sanctioned by PFC and REC to States during 2004-05 to 2006-07 for setting up of new Generation capacity

(Rs. in crore)

State	PFC	REC	Total
1	2	3	4
Andhra Pradesh	792	1544.51	2336.51
Assam	195	—	195
Gujarat	2544	—	2544
Haryana	1949	1536.03	3485.03
Himachal Pradesh	642	0	642
Jammu & Kashmir	520	0	520

1	2	3	4
Jharkhand	1892	—	1892
Madhya Pradesh	5336	—	5336
Maharashtra	6985	3693	10678
Rajasthan	4109	—	4109
Tamil Nadu	94	—	94
Uttar Pradesh	3659	—	3659
Uttarakhand	782	—	782
West Bengal	2917	—	2917
Kerala	147	154.35	301.35
Meghalaya	—	94	94
Arunachal Pradesh	—	14.07	14.07
Mizoram	—	40	40
Chhattisgarh	'—	2283.176	2283.176
TOTAL:	32563	9359.136	**41922.136**

Statement-III

Generations Projects commissioned during last 3 years & current year with PFC's and REC 's financial support

SL No.	State	Project Name]	Disciplin	Date of Commissioning
1	2	3	4	5
1	Andhra Pradesh	Priyadarshini Jurala HEP (6x39 MW)	HYG	Aug-07 # 1
2	Andhra Pradesh	Rayalseema TPP STG II (2X210 MW)	THG	Jan-07 # 1
3	Assam*	Karbi Langpi HEP (2x50 MW)	HYG	Jan-07 & Mar-07
4	Chhattisgarh	7.5 MW Biomass	THG	Mar-07
5	Gujarat	Sardar Sarovar Project	HYG	Jun-06
6	Gujarat	Lignite Based TPS at Nanichher (2X125 MW)	THG	Mar-07 & May-06

1	2	3	4	5
7	Gujarat	77MW Captive Co-generation Power Projt. at Vadinar, Jamngr. Guj.	THG	Oct-06
8	Haryana	Panipat (TDL) TPS STG-V Unit 7 & 8 (2x250 MW).	THG	Sep-04 & Feb-05
9	Himachal Pradesh	Larji HEP (3X42 MW) - 2ND LOAN	HYG	Dec-06
10	Karnataka	Almatti Dam Power House (5x55 + 1x15 MW)	HYG	Nov-04, Jan-05,Mar-05, Jul-05,Aug-05
11	Madhya Pradesh	Marhikheda (Mohini Sagar) HEP (2x20 MW)	HYG	Aug-06 & Sep-06
12	Madhya Pradesh	Bansagar Tons HEP (2x10 MW)	HYG	Aug-06
13	Madhya Pradesh	Coal Based TPP at Birsinghpur (1x500 MW)	THG	Jun-07
14	Maharashtra	Parli TPS Extension (1X250 MW) (Addl. Loan 26.10.06)	THG	Nov-06
15	Nagaland	Likim RO HEP (3x8 MW)	HYG	Mar-06 # 3
16	Rajasthan	Giral TPS STG-I (1X125 MW)Lignit	THG	Feb-07
17	Rajasthan	Dholpur CCGT TPP (3X110 MW)	THG	Mar-07 & Jun-07
18	Tamil Nadu	Pykara HEP (3x50 MW) Ultimate Stage	HYG	Aug-05 & Sep-05
19	Tamil Nadu	Bhavani Kattalai Barrage-I HEP (2X15 MW) (2nd Loan)	HYG	Aug-06 & Sep-06
20	Tamil Nadu	119.8 MW Gas Based Combined Cycle Power Plan at Karuppur	THG	Feb-05 & Jul-05

1	2	3	4	5
21	Tamil Nadu	57.4 MW Natural Gas Based Power Plant at Valantharavai	THG	Oct-05 & Jun-06
22	Tamil Nadu	18 MW Bio-Mass Based Power Project at Ramand	THG	Oct-04
23	Uttar Pradesh	Paricha TPS Units 3&4 (2x210 MW)	THG	Mar-06 & Dec-06
24	Uttaranchal	Their HEP I 4x250 MW (2nd Loan)	HYG	Jul-07, Mar-07, Nov-06, Sep-06
25	Uttaranchal	4x100 MW Vishnu Prayag HEP in UP	HYG	Jul-06, Aug-06, Oct-06
26	West Bengal	Mejia Extn. Unit 5&6 (2X250 MW) (Addl. Loan 23.03.07)	THG	Mar-07 # 5
27	Chhattisgarh	Korba (East) Thermal Power 500 MW	THG	One unit in March 2007

Statement-I V

The details of Thermal Projects under execution

(Rs. in crores) As on 15.08.07

SL No.	Name of Scheme/ Executing Agency	Sector	i.e. (No. x MW)= Capacity	Capacity Under Exec. (MW)	Likely Commng.
1	2	3	4	5	6
	AP				
1	Simhadri STPP Extn./ NTPC	Central	2x500 = 1000	1000	2010-11
2	Kakatiya TPP APGENCO	State	1x500 = 500	500	2009-10
3	Kothagudem TPP Extn. APGENCO	State	1x500 = 500	500	2009-10
4	Rayalaseema- II (2X210) APGENCO	State	2x210 = 420	210	2007-08

1	2	3	4	5	6
5	Vijayawada TPP-IV APGENCO	State	1x500 = 500	500	2008-09
.6	Gautami CCPP Gautami Power Ltd.	Private	2xl45+lx 174=464	464	2008-09
7.	Konaseema CCPP Konaseema EPS *Assam*	Private	2xl40+lx 165=445	445	2008-09
8	Lakwa Waste Heat Unit APGCL *Bihar*	State	ST-37.2	372	2008-09
9	Barh STPP- I NTPC	Central	3x660 = 1980	1980	2008-10
10	Kahalgaon St-II, Ph-1 U-6 (2X500) NTPC	Central	2x500 = 500	500	2007-08
11	Kahalgaon St-II, Ph-2 U-7 NTPC *Chhattisgarh*	Central	1x500 = 500	500	2007 -08
12	Bhilai TPP Ph-I NTPC	Central	2x250 = 500	500	2007-08
13	Korba STPP NTPC	Central	1x500 = 500	500	2009-10
14	Sipat-2 NTPC	Central	2x500 = 1000	500	2007-08
15	Sipat-I NTPC	Central	3x660= 1980	1980	2007-09
16	Korba East TPP St-5 CSEB	State	2x250 - 500	250	2007-08
17	O.P. Jindal STPP Jindal Power Ltd.	Private	4x250 = 1000	1000	2007-08
18	Pathadi TPS Ph-I Lanco Amarkantak Power Pvt. Ltd.	Private	1x300 - 300	300	2008-09

1	2	3	4	5	6
19	Pathadi TPS Ph- 1 Lanco Amarkantak Power Pvt. Ltd *Gujarat*	Private	1x300 = 300	300	2009-10
20	Dhuvaran CCPP Extn. GSECL	State	72+40 = 112	40	2007-08
21	Kutch Lignite TPS Extn./GSPCL	State	1x75 = 75	75	2007-08
22	Surat Lignite TPP Extn. GIPCL	State	2x125 = 250	250	2008-09
23	Sikka TPP Extn. GSECL	State	2x250 = 500	500	2009-11
24	Utran CCPP Extn GSECL	State	1x350 = 350	350	2009-10
25	Sugen CCPP (Akhakhol) Torrent Power Gen. Ltd. *Haryana*	Private	3x376 = 1128	1128	2007-08
26	Aravali STPS/ Aravali Power Co. Pvt. Ltd. JV of NTPC, IPGCL & HPGCL)	Central	3x500 = 1500	1500	2010-11
27	Rajiv Gandhi (Hissar) TPS HPGCL	State	2x600 = 1200	1200	2009-10
28	Yamuna Nagar TPP HPGCL *Jharkhand*	State	2x300 = 600	600	2008-09
29	Chandrapura TPS Extn./ DVC	Central	2x250 = 500	500	2007-08
30	KodarmaTPP DVC *Karnataka*	Central	2x500 = 1000	1000	2010-11
31	Bellary St-1 KPCL	State	1x500 = 500	500	2007-08
32	Bellary TPP St-II KPCL	State	1x500 = 500	500	2010-11

1	2	3	4	5	6
33	Raichur U-8 KPCL	State	1x250 = 250	250	2009-10
34	Toranagallu TPP/ JSW Energy (Vijayanagar) Ltd. *Maharashtra*	Private	2x300 = 600	600	2009-10
35	Ratnagiri JV Ph-II, Dhabol RGPPL Block-3	Central	1x740 = 740	740	2007-08
36	Bhusawal Extn. MSPGCL	State	2x500=1000	1000	2010-11
37	Khaperkheda Extn. MSPGCL	State	1x500 = 500	500	2009-10
38	New Parli Extn. U-2 MSPGCL St-II	State	1x250 = 250	250	2009-10
39	Paras TPS Extn. MSPGCL	State	1x250 = 250	250	2009-10
40	Trombay TPS Extn Tata Power Company *M.P.*	Private	'1x250 = 250	250	2008-09
41	Amarkantak TPS Extension MPPGCL *Nagaland*	State	1x210 = 250	210	2007-08
42	Dimapur HFO based DGPP Deptt of Power, Govt of Nagaland *Punjab*	State	5x22.73 = 23	23	2009-10
43	Guru Har Govind TPS-II PSEB *Rajasthan*	State	2x250 = 500	500	2007-08
44	Barsingsar Lignite/ NLC	Central	2x125 =250	250	2008-09

1	2	3	4	5	6
45	Chhabra TPS RRVUNL	State	2x250 = 500	500	2008-09
46	Dholpur CCGT RRVUNL	State	2x110+1x110=330	110	2007-08
47	Giral Lignite-II RRVUNL	State	1x125 = 125	125	2008-09
48	Kota TPP RRVUNL	State	1x195 = 195	195	2008-09
49	Sura Turbo Generatorarh TPP RRVUNL *T.N.*	State	1x250 = 250	250	2008-09
50	Neyveli TPS-II NLC. Exp. NLC	Central	2x250 = 500	500	2008-09
51	Valuthur CCPP Extn. TNEB *U.P.*	State	1x59.8+ 1x32.4=92.2	92.2	2007-08
52	National Capital Power Project St-II, U-5 NTPC	Central	1x490 = 490	490	2009-10
53	National Capital Power Project,St-II.U-6 NTPC	Central	1x490 = 490	490	2009-10
54	Harduaganj Ext UPRVUNL	State	2x250 = 500	500	2009-10
55	Pariichha Extn UPRVUNL *W.B.*	State	2x250 = 500	500	2009-10
56	Durgapur Steel TPP DVC	Central	2x500 = 1000	1000	2010-12
57	Farakka STPS st-III NTPC	Central	1x500=500	500	2010-11
58	Mejia Extn U-7 & 8 DVC	Central	2x500 = 1000	1000	2009-10

1	2	3	4	5	6
59	Mejia TPS U-6 DVC	Central	1x250 = = 250	250	2007-08
60	Bakreshwar TPS /WBPDCL	State	2x210 = = 420	420	2007-08
61	Durgapur TPS Extn DPL	State	1x300 = = 300	300	2007-08
62	Sagardighi TPP WBPDCL	State	2x300 = = 600	600	2007-08
63	Santaldih TPP Extn Ph2 WBPDCL	State	1x250 = = 250	250	2009-10
64	SantaldihTPP Extn. Ph-1 WBPDCL	State	1x250 = = 250	250	2007-08
65	Budge-Budge III CESC	Private	1x250 = = 250	250	2009-10

Statement-V

Details of Hydro Projects under Execution

(Rs. in crores) As on 15.08.07

SL No.	Name of Scheme/ Executing Agency	Sector	i.e. (No. x MW)= Capacity	Capacity Under Exec. (MW)	Likely Commng.
1	2	3	4	5	6
	Himachal Pradesh				
1	Parbati St. 11/ NHPC	Central	4x200= 800 MW	800.00	2011-12
2	Chamera- III/ NHPC	Central	3x77= 231 MW	231.00	2010-11
3	Parbati-III/ NHPC	Central	4x 130 = 520 MW	520.00	2010-11
4	Kol Dam/ NTPC	Central	4x200 = 800 MW	800.00	2009-10
5	Rampur/ SJVNL	Central	6x68.67 = 412MW	412.00	2011-12

1	2	3	4	5	6
6	Uhi-III/ Beas Valley Power Corpn. Ltd (BVPC)	State	3x33.33 = 100 MW	100.00	2010-11
7	Swara Kuddu/ Pabbar Valley Corpn. (PVC)	State	3x36.6 = 110MW	110.00	2011-12
8	Allain Duhangan/ ADHPL	Private	2x96 = 192 MW	192.00	2008-09
9	Karcham Wangtoo/ JPKPL	Private	4x250 = 1000 MW	1000.00	2011-12
10	Budhil/ LANCO	Private	2x35 = 70MW	70.00	2009-10
11	Malana-II/ Everest PC Jammu & Kashmir	Private	2x50 = 100 MW	100.00	2009-10
12	Uri-II/ NHPC	Central	4x60 = 240 MW	240.00	2009-10
13	Sewa - 11/ NHPC	Central	3x40 = 120 MW	120.00	2009-10
14	Baglihar-I/ JKSPDC Uttarakhand	State	3x150 = 450 MW	450.00	2008-09
15	Koteshwar/ THDC	Central	4x100 = 400MW	400.00	2010-11
16	Loharinagpala/ NTPC	Central	4x150 = 600 MW	600.00	2011-12
17	Tapovan Vishnugad/ NTPC	Central	4x130 = 520 MW	520.00	2011-12
18	Maneri Bhali-II/ UJVNL	State	4x76 =304 MW	304.00	2007-08
19	Shrinagar/ M/s GVK Industries Madhya Pradesh	Private	4x82.5 = 330 MW	330.00	2011-12
20	Omkarashwar/ NHDC	Central	8x65 = 520 MW	390.00	2007-08

1	2	3	4	5	6
21	Maheshwar/ SMHPCL Maharashtra	Private	10x40 = 400 MW	400.00	2011-12
22	Ghatghar PSS/ GOMID Andhra Pradesh	State	2x125 = 250 MW	250.00	2007-08
23	Priyadarshni Jurala/ APGENCO	State	6x39.1 = 234 MW	234.00	2007-09
24	Nagarujana Sagar TR/ APGENCO Kerala	State	2x25 = 50MW	50.00	2009-10
25	Kuttiyadi Addl. Ext./ KSEB	State	2x50 = 100 MW	100.00	2008-09
26	Pallivasal/ KSEB	State	3x20 = 60MW	60.00	2010-11
27	Athirapalli/ KSEB Karnataka	State	2x80 + 2x1.5 = 163 MW	163.00	2011-12
28	Varahi Extn./ KPCL Tamil Nadu	State	2x115 = 230 MW	230.00	2008-09
29	Bhawani Barrage 11/ TNEB	State	2x15 = 30MW	30.00	2010-11
30	Bhawani Barrage III/ TNEB West Bengal	State	2x15 = 30MW	30.00	2009-10
31	Teesta Low Dam-III/ NHPC	Central	4x33 = 132MW	132.00	2009-10
32	Teesta Low Dam-IV/ NHPC	Central	4x40 = 160 MW	160.00	2010-11
33	Purulia PSS/ WBSEB Orissa	State	4x225 = 900 MW	675.00	2007-08
34	Balimela Extn./ OHPC	State	2x75 = 150 MW	150.00	2007-08

1	2	3	4	5	6
	Sikkim				
35	Teesta St. V / NHPC	Central	3x170 = 510 MW	510.00	2007-08
36	Chujachen * (*Financial closure yet to achieved)/ M/s Gati	Private	2x49.5 = 99MW	99.00	2009-10
37	Teesta St. 111/ Teesta Urja Ltd. Meghalaya	Private	6x200 = 1200 MW	600.00 in 11th Plan	2011-13
38	Myntdu/ MeSEB Arunachal Pradesh	State	2x42 = 84MW	84.00	2009-10
39	Subansiri Lower/ NHPC	Central	8x250 = 2000 MW	2000.00	2011-12
-10	Kameng/ NEEPCO	Central	4x150 = 600 MW	600.00	2010-11

Statement- VI

Details of Nuclear Projects under Execution

(Rs. in crores) As on 15.08.07

SL No.	Name of Scheme/ Executing Agency	Sector	i.e. (No. x MW)= Capacity	Capacity Under Exec.	Likely Commng. (MW)
1	2	3	4	5	6
	Rajasthan				
1.	Rajasthan Atomic Power Project/ NPCL Tamil Nadu	Central	2x220 = 440 MW	440	U# 5 - 2007 U#6 - 2008
2.	Kudankulam Nuclear Power Project/ NPCL	Central	2x1000 = 2000 MW	2000	U# 1 - 2008 U# 2 - 2009

1	2	3	4	5	6
3.	Prototype Fast Breeder Reactor (PFBR)/ NPCL Karnataka	Central	1x500= , 500 MW	500	2011
4.	Kaiga Atomic Power Project/ NPCL	Central	2x220 = 440 MW	220	U#4-2008

* for both units

Shortfall in electricity generation

853. SHRI SANJAY RAUT: Will the Minister of POWER be pleased to state:

(a) the total deficit of electricity generation compared to national requirement and the number of States facing a shortfall of electricity by more than 25 per cent;

(b) the estimates of generation of electricity for the Tenth Five Year Plan and the actual generation at the end thereof;

(c) whether it is a fact that even 50 per cent target of generation of electricity was not achieved during that plan;

(d) if so, the reasons therefor; and

(e) the details of steps taken or proposed to be taken for lessening the gap of electricity demand and supply upto 2012?

THE MINISTER OF POWER (SHRI SUSHILKUMAR SHINDE): (a) The energy requirement and energy availability in the country during the year 2007-08 (April - July, 2007) was 240,834 Million Units (MU) and 221,865 MU respectively, resulting in energy deficit of 18,969 MU (7.9%). The gross energy generated in the country during the said period was 234,208 MU (including import from Bhutan).

Among the States, Maharashtra, Arunachal Pradesh and Mizoram faced peak shortage of more than 25% and Meghalaya faced peak as well as energy shortage of more than 25% during the period April- July, 2007.

(b) The target for generation of electricity is decided on an annual basis. The year-wise actual electricity generation *vis-a.-vis* the target for the Tenth Plan was as under: